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**WATANABE et al**  
**Serial No. 10/538,869**  
August 27, 2009

**AMENDMENT TO THE CLAIMS:**

The following claim set replaces all prior versions, and listings, of claims in the application:

1. (previously presented) A method for producing a hydroxyl-modified ethylene-propylene-nonconjugated diene terpolymer, the method comprising:  
kneading 100 parts by weight of an ethylene-propylene-nonconjugated diene terpolymer having a Mooney viscosity of 10 to 250 at 100°C and 0.1 to 20 parts by weight of a peroxide having a hydroperoxy group to prepare a kneaded mixture essentially containing the peroxide and the ethylene-propylene-nonconjugated diene terpolymer, wherein the peroxide has a 10-hour half-life temperature and a 1-minute half-life temperature; and  
heating the kneaded mixture essentially containing the peroxide and the ethylene-propylene-nonconjugated diene terpolymer at a temperature equal to or exceeding the 10-hour half-life temperature of the peroxide having a hydroperoxy group and not higher than the 1-minute half-life temperature of the peroxide having a hydroperoxy group to introduce hydroxyl groups into the ethylene-propylene-nonconjugated diene terpolymer via hydrogen abstraction.
2. (previously presented) A method for producing a hydroxyl-modified ethylene-propylene-nonconjugated diene terpolymer, the method comprising:  
kneading 100 parts by weight of an ethylene-propylene-nonconjugated diene terpolymer, 0.1 to 20 parts by weight of a peroxide having a hydroperoxy group, and a radical generator having a radical generating group so that not more than 1 mole of the radical generating groups are present with respect to 1 mole of the hydroperoxy groups to prepare a kneaded mixture essentially containing the ethylene-propylene-nonconjugated diene terpolymer, the peroxide and the radical generator, wherein said peroxide has a 10-hour half-life temperature and said radical generator has a 10-

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hour half-life temperature not higher than the 10-hour half-life temperature of the peroxide; and thereafter

heating the kneaded mixture essentially containing the ethylene-propylene-nonconjugated diene terpolymer, the peroxide and the radical generator at a temperature equal to or exceeding the 10-hour half-life temperature of the radical generator and not higher than 220°C to introduce hydroxyl groups into the ethylene-propylene-nonconjugated diene terpolymer via hydrogen abstraction.

3. (previously presented) The method according to claim 2, wherein the peroxide is t-butyl hydroperoxide, t-amyl hydroperoxide, t-hexyl hydroperoxide, t-octyl hydroperoxide, cumene hydroperoxide or diisopropylbenzene hydroperoxide.
4. (cancelled)
5. (previously presented) The method according to claim 2, wherein the ethylene-propylene-nonconjugated diene terpolymer has Mooney viscosity of 10 to 250 at 100°C.
6. (previously presented) The method according to claim 2, wherein the radical generator is a compound having a 1-minute half-life temperature not higher than 195°C.
- 7.-9. (cancelled).
10. (previously presented) The method according to claim 1, wherein the peroxide is t-butyl hydroperoxide, t-amyl hydroperoxide, t-hexyl hydroperoxide, t-octyl hydroperoxide, cumene hydroperoxide or diisopropylbenzene hydroperoxide.
- 11.-15. (cancelled)
16. (previously presented) The method according to claim 1, wherein said heating includes replacing a hydrogen atom of the ethylene-propylene-nonconjugated

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diene terpolymer by a hydroxyl group of the peroxide having a hydroperoxy group.

17. (previously presented) The method according to claim 2, wherein said heating includes replacing a hydrogen atom of the ethylene-propylene-nonconjugated diene terpolymer by a hydroxyl group of the peroxide having a hydroperoxy group.